

Interactive Report User Guide

Trend Reports and Dashboards

The interactive Trend Reports and Dashboards display coverage and exemption estimates for school years 2009-10, 2011-12, 2013-13, 2013-14, and 2014-15. These data were produced from annual kindergarten assessment surveys conducted by state immunization programs and reported to CDC. To view detailed information on methods and limitations, visit [SchoolVaxView](#).

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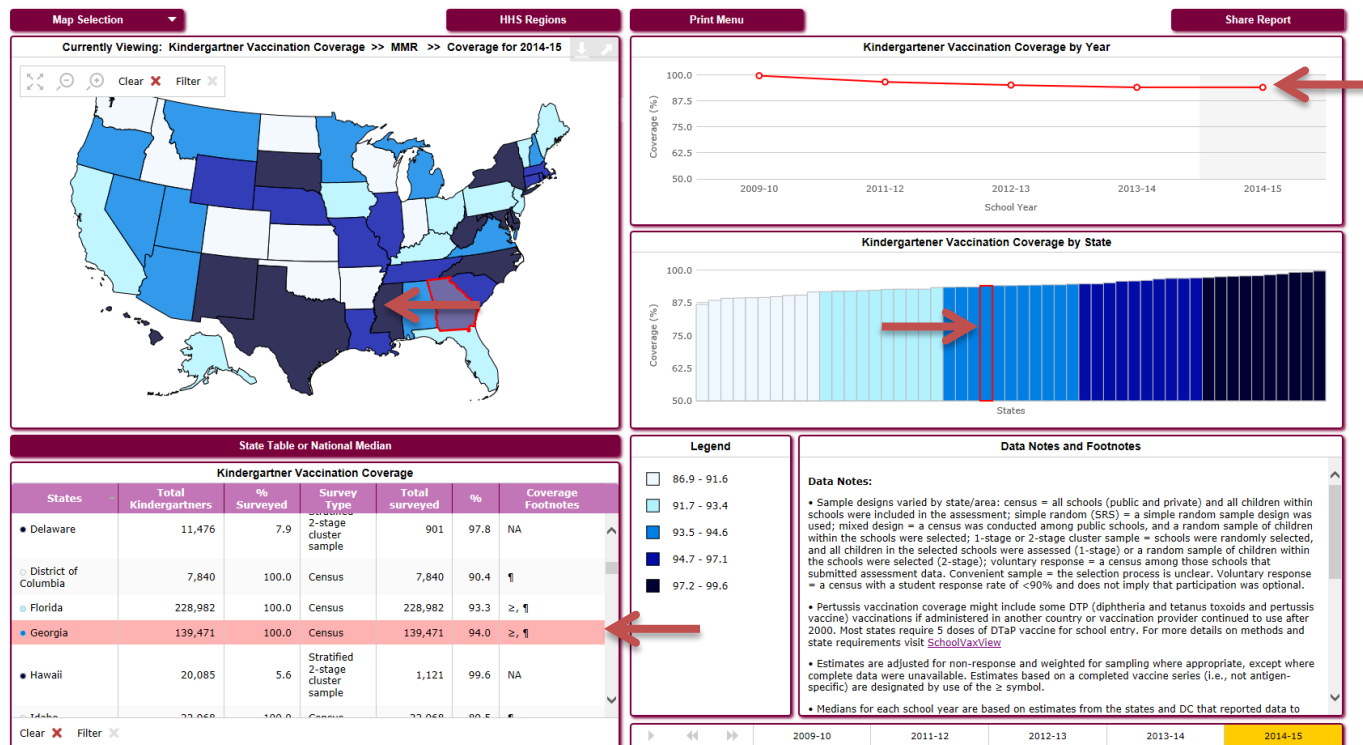
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Trend Report

Interactive Features

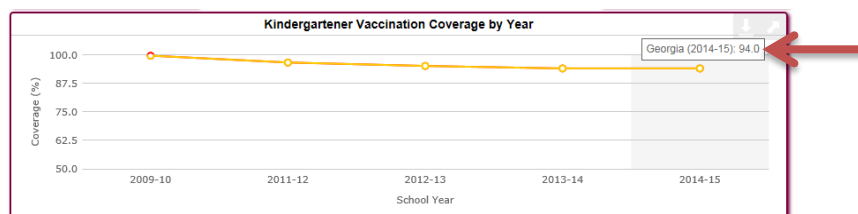
Map and Charts

- The map displays estimates for each state with a color based on the values given in the legend. The color selected for each state also corresponds to its bar in the bar chart. Hovering over a state will display a text box with the state name and the estimate. Clicking the state will populate the line graph, highlight the state's row in the state table, and outline the state's bar. Multiple states can be selected simultaneously by using this method.



Line Graph

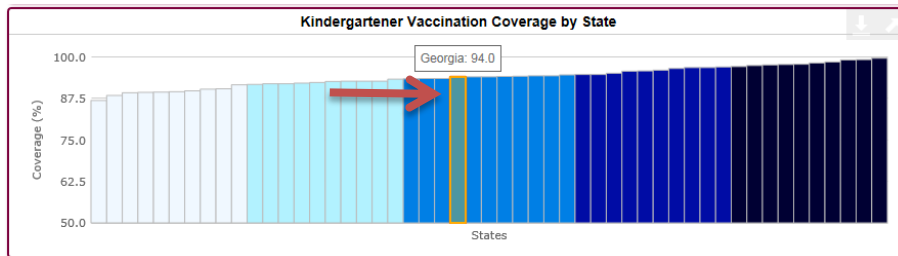
- The time series chart displays the selected data by school year. This element is empty when the report is opened. To activate it, hover over or click on any state in the map, bar chart, or state table. Hovering over a data point in the time series chart will display a text box with the name of the area, the selected time period (school year), and the corresponding estimate. Values on the X-axis (horizontal axis) represent school years, which begin in 2009-10 and end in 2014-15.



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Bar Chart

- The bar chart displays a bar for each state, representing the coverage or exemption estimate. The color of each bar corresponds to a value range in the Legend. The states are ordered from lowest to highest. Hovering over a bar will display a text box with the name of the state and its estimate. Click a bar to select it. Additional bars can be selected using this method.



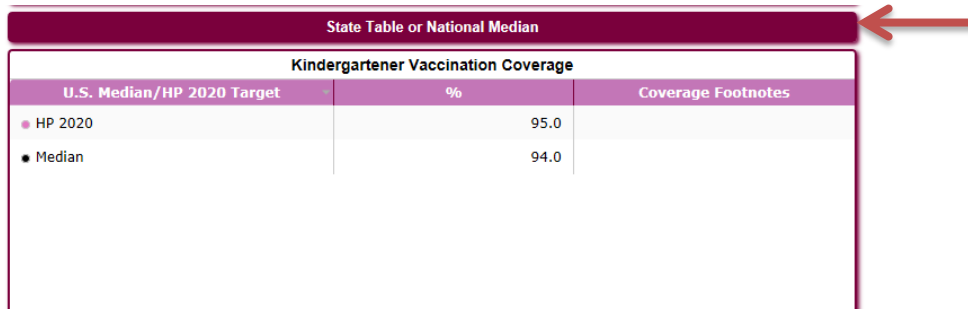
Data Tables

- The state table displays data for each state. Click a column heading to change the order of the data. Click again to reverse the order. By default the data are sorted alphabetically by state name. The color of the circle beside a state is based on its estimate, and corresponds to its shade in each of the elements on the legend. **“Clear X”** removes all selections from the table and other elements. **“Filter X”** removes all selected filters. Click a state to select it. Additional states can be selected using this method. Click a selected state to unselect it.

States	Total Kindergartners	% Surveyed	Survey Type	Total surveyed	%	Coverage Footnotes
Alabama	59,660	100.0	Census	59,660	93.5	≥, 1
Alaska	10,121	7.9	Stratified 2-stage cluster sample	795	92.7	
Arizona	86,153	98.3	Census	84,651	94.2	NA
Arkansas	41,252	95.9	Census (public), Voluntary response (private)	39,581	88.4	NA
California	552,583	96.9	Census	535,234	92.6	NA

Clear X Filter X

- Click the “**State Table or National Median**” button directly above the state table to display the HP 2020 target and national median. Clicking either will add a line to the bar chart and line graph.



State Table or National Median		
Kindergartener Vaccination Coverage		
U.S. Median/HP 2020 Target	%	Coverage Footnotes
● HP 2020	95.0	
● Median	94.0	

Play Time Animation

- Click Play (▶) to animate time series data in the map, bar chart, and tables, and view changes of estimates over time. It is also possible to manually move forward or backward by clicking on the left and right double arrows, or jump to a specific time period by clicking on it.



▶	◀▶	2009-10	2011-12	2012-13	2013-14	2014-15
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Legend

- The Legend shows the range of data values associated with each color on the map, bar chart, and State Table. To customize the legend, scroll over and click the ‘gear’ symbol in the top right corner. The legend settings menu allows for the color (1), number of classes (2), and classifiers (3) to be customized.

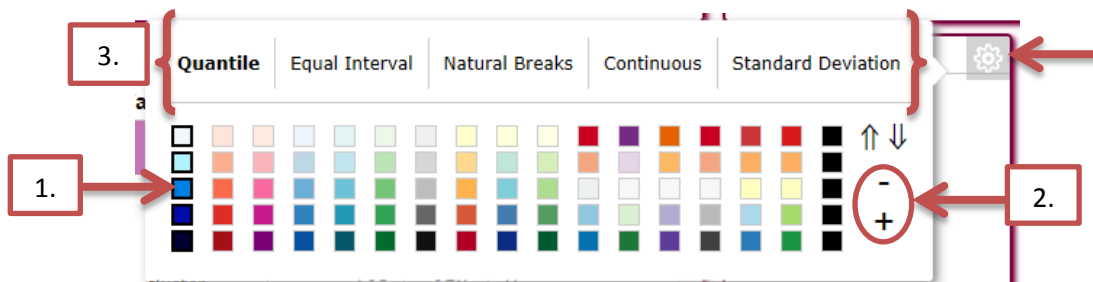
Quantile: Each class in the legend contains an approximately equal number of states. Class breaks are calculated automatically based on the selected data and will update if you change the number of classes (tertiles, quartiles, quintiles...). Two advantages of the quantile classification are that it is appropriate for ordinal data (as data are rank-ordered) and that it can help make map comparisons (assuming that the same number of classifications is used for all maps). A disadvantage of the quantile classification is that it does not consider how the data are distributed. If the data distribution is highly skewed, data observations will be forced into the same class (either the lowest or highest) where this may not be appropriate. As a result, the quantile classification may give a false impression that there is a relatively normal data distribution.

Equal Interval: The intervals between class breaks are equal. Class breaks are calculated automatically based on the selected data and will update if you change the number of classes. The advantage of the equal-interval classification is that many users find it simple to understand. However, a disadvantage is that only the minimum and maximum data values are used when determining class breaks for the intervals.

Natural Breaks: This classification method is also known as Optimal Breaks and Jenks' Method. Class breaks are calculated automatically based on the selected data and will update if you change the number of classes. Data are assigned to classes based upon their position along the data distribution relative to all other data values. The advantage of this classification is that the data distribution is explicitly considered for determining class breaks. However, the disadvantage is that users may not understand the classification method used and that class breaks may not be immediately intuitive.

Continuous: Each geographic feature is shaded differently using a continuous scale. This legend type is useful for identifying extremely high or low values.

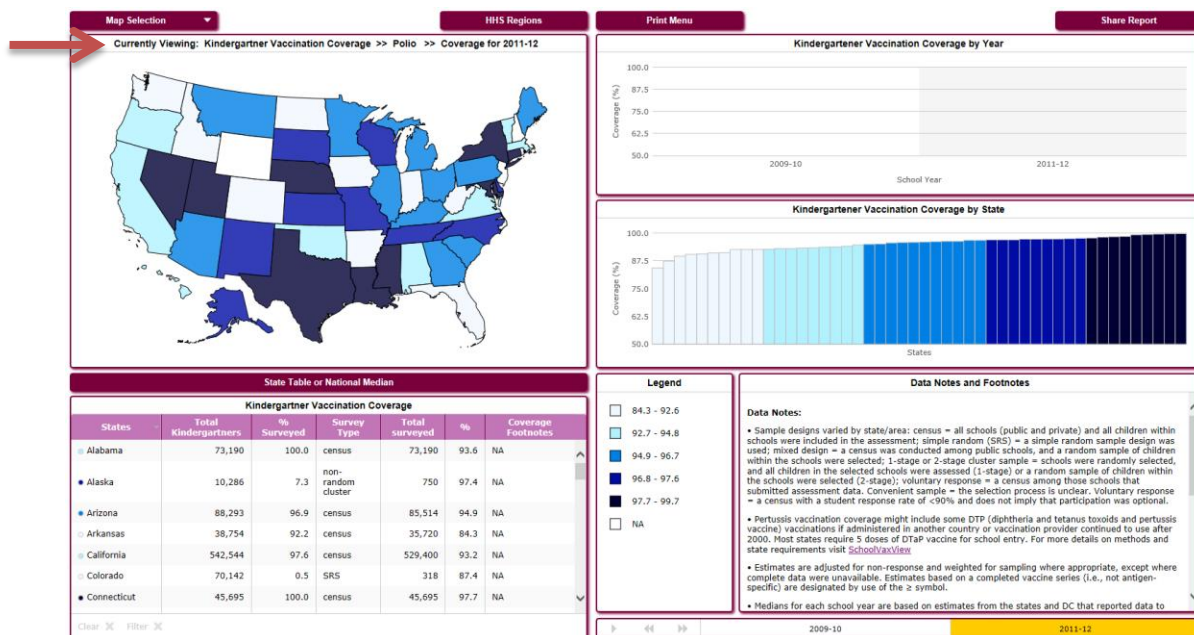
Standard Deviation: Class breaks reflect the number of standard deviations from the data average (or mean). States are classified according to how many standard deviations above or below the average their coverage estimate value falls. The number of classes for this legend type cannot be changed.



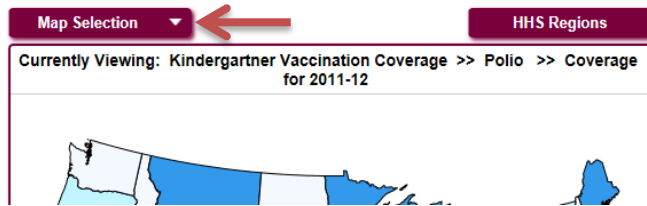
Map Selection and Filtering by HHS Region

Map Selection

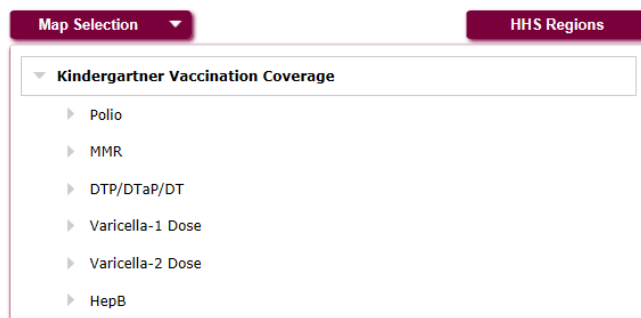
- When the report is opened, the initial map displays data for the most recent year reported, and lists the indicator in the title located in the header of the map panel.



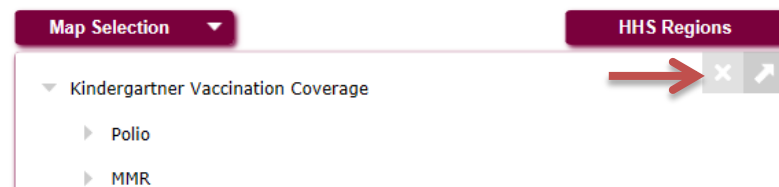
- To view data for other indicators and years, click the Map Selection button.



- Click again on the theme to open the data tree, and select the desired indicator.

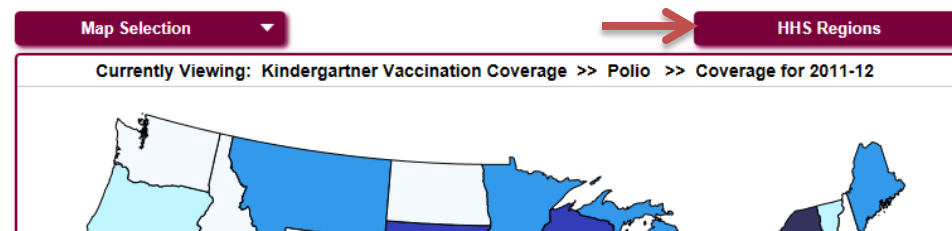


- Once a selection is made, the window will close and the map will update. If no selection is made, close the window by clicking the 'X' in the top right corner.



Filter Map by State

- The map can be filtered to show only estimates by HHS region by clicking the "HHS Regions" button.



- Select the desired region from the menu.

Map Selection

HHS Regions

Filter to HHS Region

Region 1

Region 2

Region 3

Region 4

Region 5

Region 6

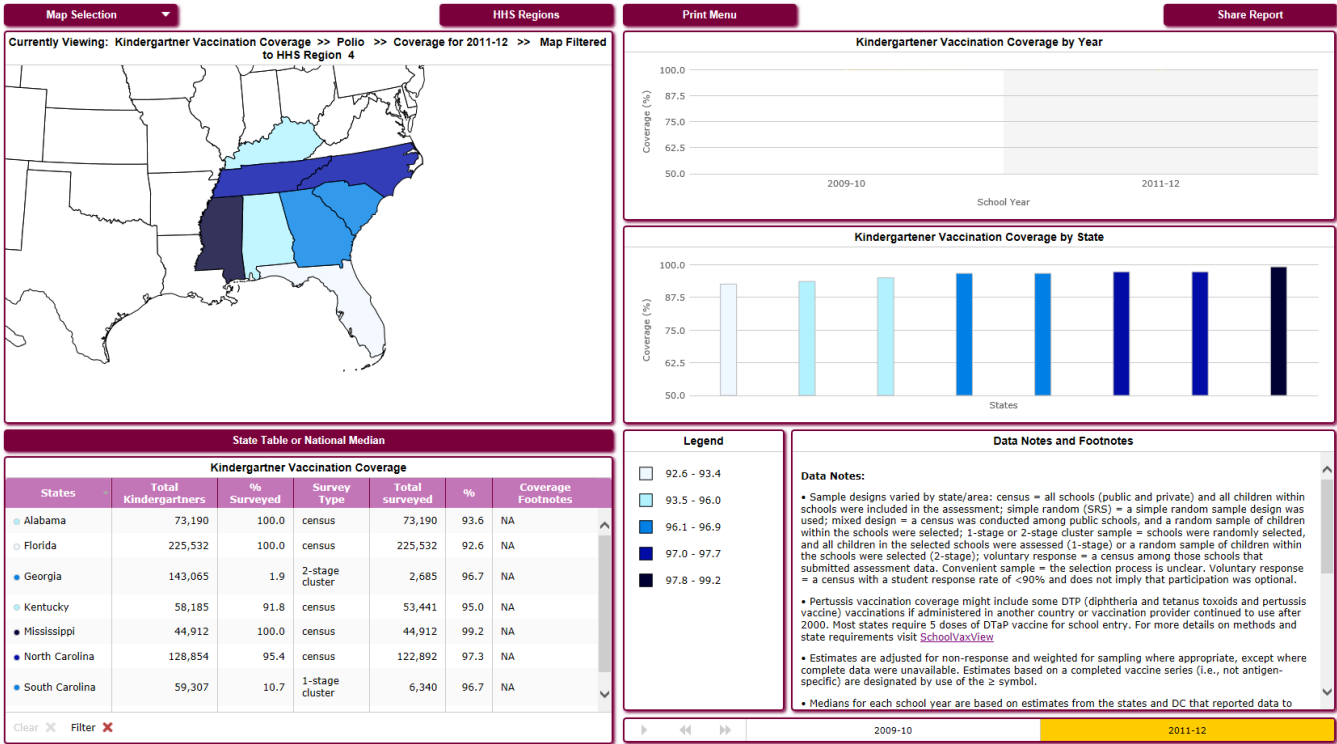
Region 7

Region 8

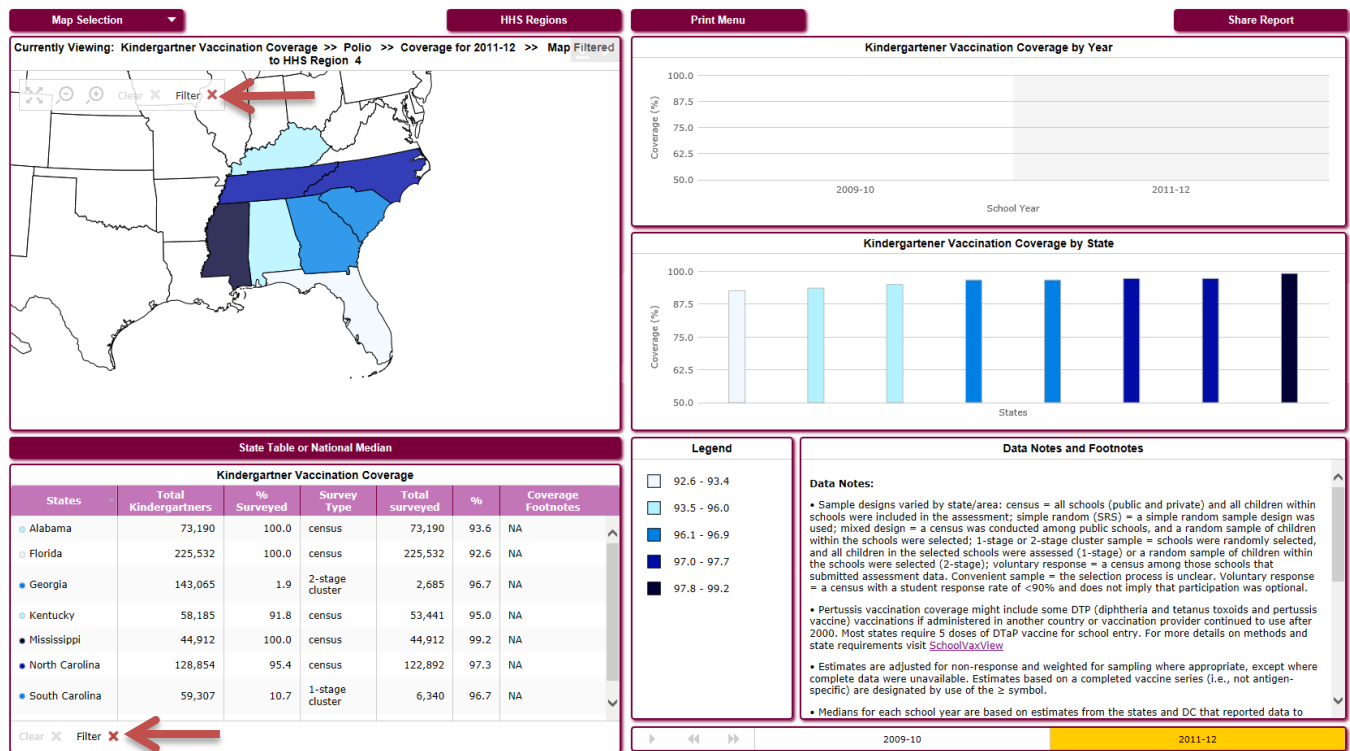
Region 9

Region 10

- Once selected the map and charts will update to display only states included in the specified region.



- To remove the filter, click the “**Filter X**” button at the bottom of the state table, or scroll over the map and click the “**Filter X**” button in the map toolbar.



‘Print Menu’ Button

- Click the “**Print Menu**” button to open a new browser tab or window showing the print preview. The size of the report can be altered using the ‘+’ and ‘-’ buttons at the top of the page. When the report is at the desired size, click the printer icon to open the print settings dialog of your internet browser. To exit, close the window/tab.

Print Menu

‘Share’ Button

- Click the ‘Share’ button to open a pop-up window which allows you to share this report by email or by embedding it into your own website. To share by email simply copy the displayed link and paste it into the email text. To embed the report into your website, copy the displayed code and paste it into your website source code. To exit, click the Share button again, or click the ‘X’ that appears in the top right corner when you hover the cursor over the share window.

Share Report

Email report - copy and paste link into email

Embed report - copy and paste html into web page




Coverage Dashboard

- The Coverage Dashboard is left blank when the report is opened. Once a state or median is selected, the table is populated with data for each state, as well as the coverage estimate displayed as a colored horizontal bar.

Interactive Features

Comparison Table

- The 'Comparison Table' is the main component of this report. When a selection is made in the state or median table, the comparison table is populated with data for population (Total Population), the percent of kindergartners surveyed (% Surveyed), the coverage estimate (%), footnotes, and the type of survey conducted (Survey Type). The column titled 'Progress Toward Healthy People 2020' shows the coverage estimate (%) as a horizontal bar on a scale from 0-100 and its position relative to the Healthy People 2020 target, which is represented as a red vertical line.

Vaccine	States	Total Population	% Surveyed	%	Footnotes	Survey Type	Progress Toward Healthy People 2020 (red line)
▼ MMR							
Coverage	Georgia	139,471	100.0	94.0	≥, *	Census	0  100
▼ DTP/DTaP/DT							
Coverage	Georgia	139,471	100.0	94.0	≥, *	Census	0  100
▼ Varicella-2 Dose							
Coverage	Georgia	139,471	100.0	94.0	≥, *	Census	0  100

State Table

- Selecting a state or multiple states in this table will populate the columns in the Comparison Table with data for each selection. To clear the selection, click the 'Clear' button at the bottom of the table, or click the selected state again to remove it from the Comparison Table.

State

Alabama

Alaska

Arizona

Arkansas

California

Colorado

Connecticut

Delaware

District of Columbia

Florida

Georgia

Hawaii

Idaho

Illinois

Indiana

Iowa

Kansas

Kentucky

Louisiana

Maine

Maryland

Massachusetts

Michigan

Minnesota

Mississippi

Missouri

Montana

Nebraska

Nevada

New Hampshire

New Jersey

New Mexico

New York

North Carolina

North Dakota

Ohio

Oklahoma

Oregon

Pennsylvania

Rhode Island

South Carolina

South Dakota

Tennessee

Texas

Utah

Vermont

Virginia

Washington

West Virginia

Wisconsin

Wyoming

Clear

X

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Median Table

- Click **“Median”** in the **“US Median”** table to view the median estimate for each vaccine. To clear the selection, click **“Median”** again or click the **“Clear”** button in the State table above the **“US Median”** table.

US Median
Median

‘Filter’ Button

- Clicking the **“Filter”** button opens a menu of the HHS regions. Selecting a region will display only states from that region in the **“State”** table. Selecting the states in this table will populate the Comparison Table with state specific data. To remove the filter, click the **‘Filter’** button at the bottom of the State table.

Filter

Filter to HHS Region

Region 1

Region 2

Region 3

Region 4

Region 5

Region 6

Region 7

Region 8

Region 9

Region 10

‘Notes/Footnotes’ Button

- Click the **“Notes/Footnotes”** button to view more information about methods, and for a link to the MMWR page. Click the **“X”** in the top-right corner of the window to close.

Data Notes:

- Sample designs varied by state/area: census = all schools (public and private) and all children within schools were included in the assessment; simple random = a simple random sample design was used; 1-stage or 2-stage cluster sample = schools were randomly selected, and all children in the selected schools were assessed (1-stage) or a random sample of children within the schools were selected (2-stage); voluntary response = a census with a student response rate of <90%.
- Most states require 2 doses of MMR vaccine; Alaska, California, and Oregon require 2 doses of measles, 1 dose of mumps, and 1 dose of rubella. Pennsylvania requires 2 doses of measles and mumps, 1 dose of rubella. New York requires 2 doses of measles and mumps, 1 dose of rubella vaccine by 7 years of age. New York reported 1+ doses MMR for children under 7.
- Pertussis vaccination coverage might include some DTP (diphtheria and tetanus toxoids and pertussis vaccine) vaccinations if administered in another country or vaccination provider continued to use after 2000. Most states require 5 doses of DTaP vaccine; Virginia requires 4 doses for school entry in Virginia; Nebraska required 3 doses. Pennsylvania requires 4 doses of diphtheria and tetanus vaccine, but pertussis vaccine is not required.
- Estimates are adjusted for nonresponse and weighted for sampling where appropriate. Percentages for Houston are approximations. Estimates based on a completed vaccine series (i.e., not antigen-specific) are designated by use of the ≥ symbol. Coverage may include history of disease and laboratory evidence of immunity.
- The kindergarten population is an approximation provided by each state/area.
- For more details on methods and state requirements visit [SchoolVaxView](#)

Abbreviations: MMR = measles, mumps, and rubella vaccine; DTaP/DT = diphtheria and tetanus toxoids and acellular pertussis vaccine; NA = not available; NReq = not required for school entry.

Footnotes:

* The proportion surveyed is probably <100%, but is shown as 100% based on incomplete information about the actual current enrollment.

† Kindergarten coverage data were collected from a sample, and exemption data were collected from a census of kindergartners.

‡ Counts some or all vaccine doses received regardless of Advisory Committee on Immunization Practices recommended age and time interval; vaccination coverage rates shown might be higher than those for valid doses.

§ Does not include non-district-specific, virtual, and college laboratory schools, or private schools with fewer than 10 students.

|| Pertussis vaccine is not required in Pennsylvania. Coverage for diphtheria and tetanus was 93.9%.

¶ Collected public school data only.

** The median is the center of the estimates in the distribution. The median does not include Houston, New York City, Guam, the Commonwealth of the Northern Mariana Islands, Puerto Rico, and the U.S. Virgin Islands.

X

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